

FIG. 1

```

graph TD
    Start([START]) --> 100{More packets  
to be read?}
    100 -- No --> 120[Terminate  
processing]
    100 -- Yes --> 140[Read next data  
item from  
1394 Link]
    140 --> 160{Is  
isochronous  
packet  
header?}
    160 -- No --> 100
    160 -- Yes --> 180[Output isochronous  
data marker  
to SDRAM]
    180 --> 200[Read, process and  
output entire  
isochronous packet  
data payload  
from 1394 link  
to SDRAM]
    200 --> 100
  
```

Fig. 2

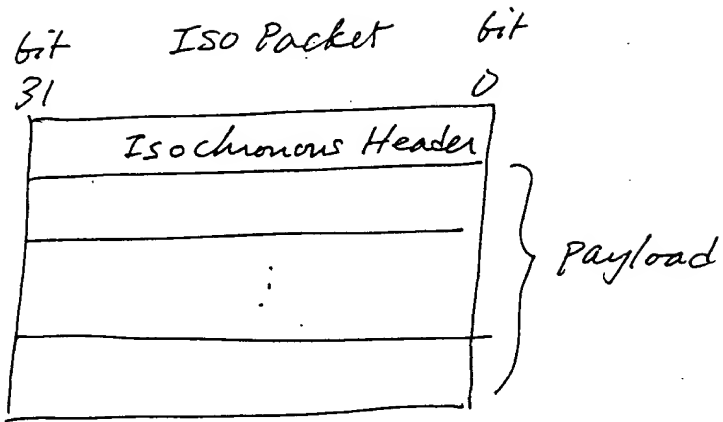


FIG. 3

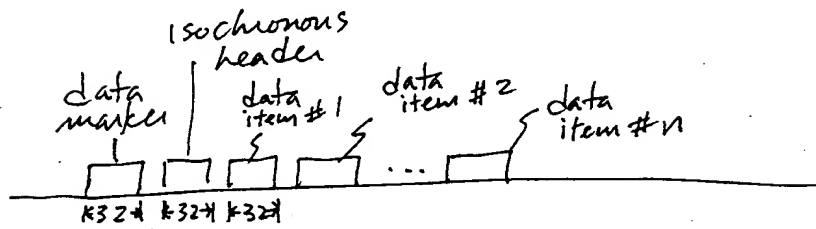


FIG. 4

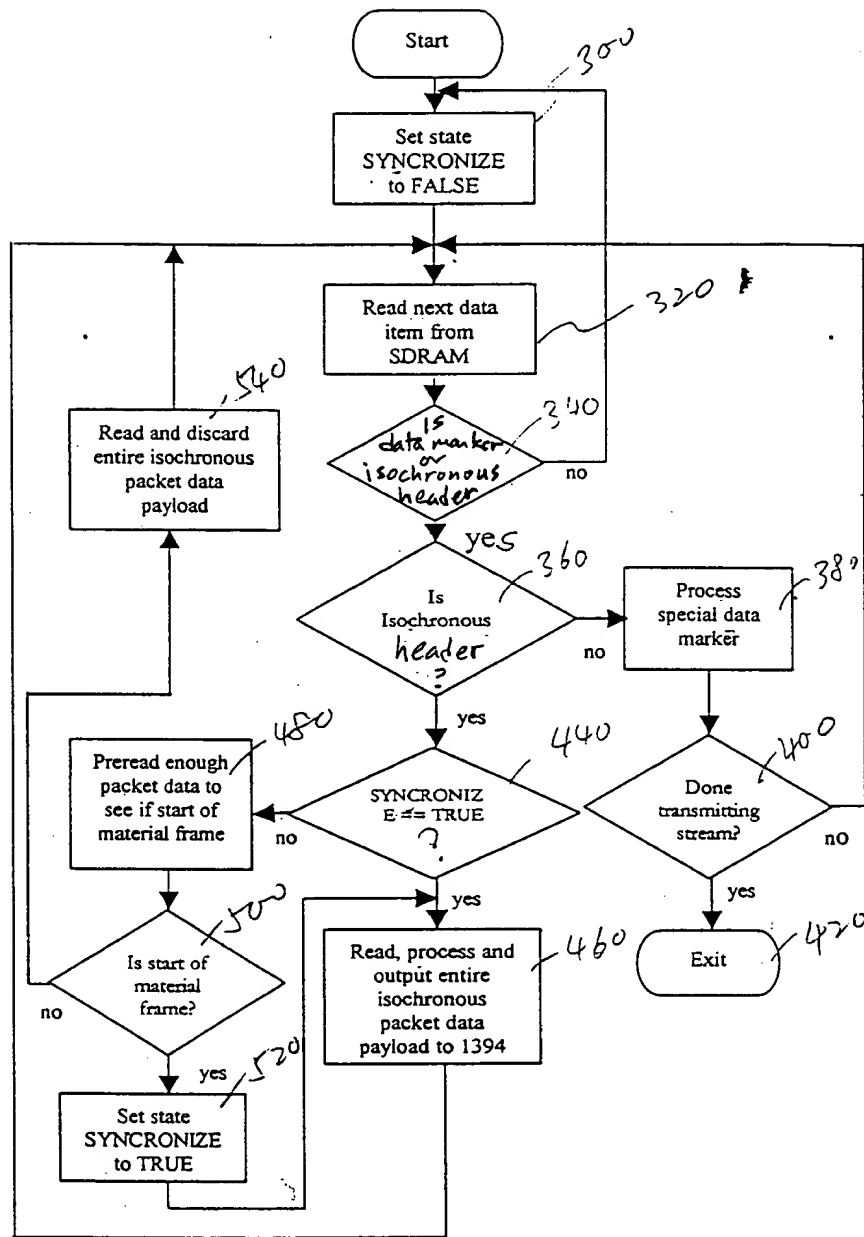


FIG. 5

The diagram illustrates the process of reading data from a disk and transferring it to SDRAM. On the left, a vertical stack of rectangles represents 'Disk Sectors'. A thought bubble above the top sector indicates the 'Start of transmit stream', and another thought bubble below it indicates the 'Start of next frame of material'. An arrow labeled 'Disk Sectors' points from the top sector to a vertical stack of boxes labeled 'Isochronous stream packets mapped on disk'. These boxes are labeled PKT 0 through PKT 9. A thought bubble above PKT 0 indicates 'First data in SDRAM'. An arrow points from PKT 0 to a central box labeled 'IDP firmware control store synchronization logic. Reading data transferred from disk to SDRAM'. Another arrow points from this central box to a vertical stack of boxes labeled '1394 bus data', which are labeled PKT 3 through PKT 9. The label 'FIG. 6' is written at the bottom right of the diagram.

FIG. 6

Start of transmit stream

Disk Sectors

Start of next frame of material

Sectors lost here have partial PKT 6 and PKT a

Start of next frame of material

Isochronous stream packets mapped on disk

PKT 0

PKT 1

PKT 2

PKT 3

PKT 4

PKT 5

PKT 6

PKT a

PKT b

PKT c

PKT d

PKT e

First data in SDRAM

IDP firmware control store synchronization logic. Reading data transferred from disk to SDRAM

1394 bus data

PKT 1

PKT 2

PKT 3

PKT 4

PKT 5

PKT 6

PKT c

PKT d

PKT e

PKT 6 goes out with some garbage data. The IDP firmware then resynchronizes to PKT c the next frame of material.

16.7

Fig. 7